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| **eTable 1.** Reproductive History, Breast-feeding, and Overall Breast Cancer Risk among Parous U.S. Hispanic Women | | | | | | | | | | | |
|  |  |  | **Parous U.S. Hispanic Women** | | | | | | | | |
|  |  |  | **All Women** | | | **Premenopausal Women** | | | **Postmenopausal Women** | | |
|  |  |  | **Cases**  **N=1,838** | **Controls**  **N=2,251** |  | **Cases**  **N=713** | **Controls**  **N=786** |  | **Cases**  **N=1,042** | **Controls**  **N=1,356** |  |
|  |  |  | **N** | **N** | **OR 95% CI a** |  |  | **OR 95% CI b** |  |  | **OR 95% CI c** |
| Age at first live birth (years) d | | | | |  |  |  |  |  |  |  |
|  |  | <20 | 467 | 669 | 1.0 | 146 | 233 | 1.0 | 302 | 399 | 1.0 |
|  |  | 20-24 | 733 | 892 | 1.11 0.94-1.31 | 269 | 278 | 1.45 1.08-1.94 | 433 | 572 | 0.96 0.78-1.19 |
|  |  | 25-29 | 385 | 463 | 1.02 0.84-1.25 | 175 | 179 | 1.35 0.96-1.89 | 186 | 269 | 0.82 0.63-1.08 |
|  |  | ≥30 | 253 | 227 | 1.18 0.92-1.52 | 123 | 96 | 1.59 1.05-2.40 | 121 | 116 | 1.06 0.75-1.50 |
|  |  |  |  |  | *P* trend = 0.19 |  |  | *P* trend = 0.03 |  |  | *P* trend = 0.74 |
|  |  |  |  |  |  |  |  | *P* heterogeneity by menopausal status = 0.02 | | |  |
| Parity e,f | | |  |  |  |  |  |  |  |  |  |
|  |  | 1 | 286 | 234 | 1.0 | 147 | 105 | 1.0 | 124 | 117 | 1.0 |
|  |  | 2 | 557 | 530 | 0.88 0.70-1.11 | 260 | 239 | 0.85 0.61-1.18 | 261 | 257 | 0.93 0.67-1.30 |
|  |  | 3 | 461 | 587 | 0.72 0.57-0.92 | 194 | 229 | 0.76 0.52-1.11 | 243 | 331 | 0.73 0.52-1.02 |
|  |  | ≥4 | 534 | 900 | 0.66 0.52-0.86 | 112 | 213 | 0.62 0.40-0.97 | 414 | 651 | 0.74 0.53-1.04 |
|  |  |  |  |  | *P* trend =0.002 |  |  | *P* trend = 0.03 |  |  | *P* trend = 0.09 |
|  |  |  |  |  |  |  |  | *P* heterogeneity by menopausal status= 0.07 | | |  |
|  |  | per live birth | |  | 0.90 0.86-0.94 |  |  | 0.89 0.80-0.99 |  |  | 0.90 0.86-0.95 |
|  |  |  | |  |  |  |  |  |  |  |  |
| History of breast-feeding g | | | | | |  |  |  |  |  |  |
|  |  | Never | 674 | 675 | 1.0 | 202 | 175 | 1.0 | 437 | 468 | 1.0 |
|  |  | Ever | 1,164 | 1,576 | 0.80 0.69-0.92 | 511 | 611 | 0.80 0.62-1.04 | 605 | 888 | 0.79 0.66-0.94 |
|  |  |  |  |  |  |  |  | *P* heterogeneity by menopausal status= 0.69 | | |  |
|  | | | | | |  |  |  |  |  |  |
| Duration of lifetime breast-feeding (months) g | | | | | |  |  |  |  |  |  |
|  |  | 0 | 674 | 675 | 1.0 | 202 | 175 | 1.0 | 437 | 468 | 1.0 |
|  |  | 1-6 | 430 | 473 | 0.88 0.73-1.05 | 180 | 176 | 0.85 0.62-1.16 | 225 | 271 | 0.87 0.69-1.10 |
|  |  | 7-12 | 222 | 272 | 0.81 0.65-1.01 | 120 | 119 | 0.88 0.62-1.25 | 94 | 139 | 0.73 0.54-1.00 |
|  |  | 13-24 | 248 | 346 | 0.77 0.62-0.95 | 112 | 150 | 0.73 0.51-1.04 | 126 | 180 | 0.81 0.61-1.07 |
|  |  | ≥25 | 264 | 485 | 0.69 0.56-0.85 | 99 | 166 | 0.70 0.48-1.01 | 160 | 298 | 0.68 0.52-0.89 |
|  |  |  |  |  | *P* trend = 0.001 |  |  | *P* trend = 0.06 |  |  | *P* trend = 0.005 |
|  |  |  |  |  | *P* trend = 0.03 h |  |  | *P* trend = 0.17 h |  |  | *P* trend = 0.11 h |
|  |  |  |  |  |  |  |  | *P* heterogeneity by menopausal status= 0.42 | | |  |
|  |  | Per 12 months | |  | 0.93 0.89-0.97 |  |  | 0.90 0.83-0.99 |  |  | 0.94 0.89-0.98 |
|  |  |  | |  |  |  |  |  |  |  |  |
| Abbreviations: 4-CBCS, 4-Corners Breast Cancer Study; HT, hormone therapy; MBCS, Mexico Breast Cancer Study; NC-BCFR, Northern California Breast Cancer Family Registry; SFBCS, San Francisco Bay Area Breast Cancer Study.  a Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), education (less than high school, high school graduate, post high school education), family history of breast cancer in first-degree relatives (no or yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), menopausal status and HT use (premenopausal, postmenopausal never used HT, postmenopausal past HT use, postmenopausal current use, menopausal status unknown), average daily alcohol consumption (0, 0.1-4.9, 5-9.9, ≥10 grams), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  b Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), education (less than high school, high school graduate, post high school education), family history of breast cancer in first-degree relatives (no or yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), average daily alcohol consumption (0, 0.1-4.9, 5-9.9, ≥10 grams), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  c Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), education (less than high school, high school graduate, post high school education), family history of breast cancer in first-degree relatives (no or yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), HT use (postmenopausal never used HT, postmenopausal past HT use, postmenopausal current use), average daily alcohol consumption (0, 0.1-4.9, 5-9.9, ≥10 grams), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  d Adjusted additionally for parity and lifetime breast-feeding.  e Number of live births.  f Adjusted additionally for lifetime breast-feeding and age at first live birth.  g Adjusted additionally for parity and age at first live birth.  h Trend for women who breast-fed. | | | | | | | | | | | |

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| **eTable 2.** Reproductive History, Breast-feeding, and Breast Cancer Risk Among Parous U.S. Hispanic Women, by Hormone Receptor Status and Menopausal Status | | | | | | | | | | | | | | |
| **Parous U.S. Hispanic Women** | | | | | | | | | | | | | | |
|  |  |  | **All Women** | | | **Premenopausal Women** | | | **Postmenopausal Women** | | | **All Women** | | |
|  |  |  | **HR+ Cases**  **N=1,139** | **Controls**  **N=2,251** |  | **HR+ Cases**  **N=408** | **Controls**  **N=786** |  | **HR+ Cases**  **N=683** | **Controls**  **N=1,356** |  | **ER-PR- Cases**  **N=328** | **Controls**  **N=2,251** |  |
|  |  |  | **N** | **N** | **OR 95% CI a** | **N** | **N** | **OR 95% CI b** | **N** | **N** | **OR 95% CI c** | **N** | **N** | **OR 95% CI d** |
| Age at first live birth (years) e | | | | |  |  |  |  |  |  |  |  |  |  |
|  |  | <20 | 277 | 669 | 1.0 | 85 | 233 | 1.0 | 185 | 399 | 1.0 | 112 | 669 | 1.0 |
|  |  | 20-24 | 437 | 892 | 1.08 0.89-1.32 | 133 | 278 | 1.11 0.78-1.59 | 285 | 572 | 1.03 0.81-1.32 | 155 | 892 | 1.09 0.82-1.45 |
|  |  | 25-29 | 247 | 463 | 1.10 0.87-1.38 | 104 | 179 | 1.29 0.87-1.92 | 129 | 269 | 0.92 0.68-1.25 | 80 | 463 | 1.01 0.72-1.45 |
|  |  | ≥30 | 178 | 227 | 1.34 1.01-1.78 | 86 | 96 | 1.61 1.00-2.59 | 84 | 116 | 1.17 0.80-1.73 | 35 | 227 | 0.84 0.52-1.34 |
|  |  |  |  |  | *P* trend = 0.046 |  |  | *P* trend = 0.049 |  |  | *P* trend = 0.41 |  |  | *P* trend = 0.45 |
|  |  |  |  |  |  |  |  | *P* heterogeneity by menopausal status =0.02 | | |  |  |  |  |
|  | | |  |  |  |  |  | *P* heterogeneity by subtype *=* 0.04 | | |  |  |  |  |
| Parity f,g | | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 1 | 192 | 234 | 1.0 | 102 | 105 | 1.0 | 83 | 117 | 1.0 | 46 | 234 | 1.0 |
|  |  | 2 | 339 | 530 | 0.82 0.64-1.06 | 146 | 239 | 0.70 0.48-1.02 | 170 | 257 | 0.95 0.66-1.37 | 117 | 530 | 1.09 0.82-1.45 |
|  |  | 3 | 284 | 587 | 0.67 0.51-0.88 | 108 | 229 | 0.64 0.42-0.98 | 162 | 331 | 0.74 0.51-1.08 | 97 | 587 | 0.97 0.63-1.50 |
|  |  | ≥4 | 324 | 900 | 0.59 0.44-0.79 | 52 | 213 | 0.41 0.24-0.70 | 268 | 651 | 0.73 0.50-1.07 | 122 | 900 | 1.05 0.67-1.67 |
|  |  |  |  |  | *P* trend = 0.001 |  |  | *P* trend = 0.001 |  |  | *P* trend = 0.11 |  |  | *P* trend = 0.82 |
|  |  | per live birth | |  | 0.88 0.84-0.93 |  |  | 0.78 0.69-0.90 |  |  | 0.90 0.85-0.95 |  |  | 1.00 0.93-1.08 |
|  |  |  | |  |  |  |  | *P* heterogeneity by menopausal status *=* 0.01 | | |  |  |  |  |
|  |  |  | |  |  |  |  | *P* heterogeneity by subtype *=* 0.02 | | |  |  |  |  |
|  | | | | | |  |  |  |  |  |  |  |  |  |
| History of breast-feeding h | | | | | |  |  |  |  |  |  |  |  |  |
|  |  | Never | 434 | 675 | 1.00 | 130 | 175 | 1.0 | 285 | 468 | 1.0 | 130 | 675 | 1.0 |
|  |  | Ever | 705 | 1576 | 0.78 0.66-0.92 | 278 | 611 | 0.73 0.54-0.98 | 398 | 888 | 0.80 0.65-0.98 | 252 | 1576 | 0.77 0.60-1.00 |
|  |  |  |  |  |  |  |  | *P heterogeneity by menopausal status* = 0.28 | | |  |  |  |  |
|  | | | | | |  |  | *P heterogeneity by subtype =* 0.87 | | |  |  |  |  |
| Duration of lifetime breast-feeding (months) h | | | | | |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 434 | 675 | 1.0 | 130 | 175 | 1.0 | 285 | 468 | 1.0 | 130 | 675 | 1.0 |
|  |  | 1-6 | 259 | 473 | 0.82 0.67-1.01 | 96 | 176 | 0.72 0.50-1.04 | 149 | 271 | 0.87 0.67-1.13 | 97 | 473 | 0.92 0.68-1.25 |
|  |  | 7-12 | 136 | 272 | 0.84 0.65-1.08 | 62 | 119 | 0.80 0.53-1.20 | 68 | 139 | 0.83 0.59-1.17 | 45 | 272 | 0.72 0.48-1.06 |
|  |  | 13-24 | 154 | 346 | 0.76 0.60-0.97 | 69 | 150 | 0.74 0.49-1.11 | 79 | 180 | 0.78 0.56-1.07 | 45 | 346 | 0.63 0.43-0.93 |
|  |  | ≥25 | 156 | 485 | 0.68 0.53-0.87 | 51 | 166 | 0.65 0.42-1.02 | 102 | 298 | 0.68 0.50-0.93 | 65 | 485 | 0.73 0.51-1.05 |
|  |  |  |  |  | *P* trend =0.002 |  |  | *P* trend = 0.06 |  |  | *P* trend = 0.02 |  |  | *P* trend = 0.09 |
|  |  |  |  |  | *P* trend = 0.15 i |  |  | *P* trend = 0.45 i | | | *P* trend = 0.18 i |  |  | *P* trend = 0.13 i |
|  |  | Per 12 months | |  | 0.94 0.90-0.99 |  |  | 0.93 0.84-1.03 |  |  | 0.94 0.89-1.00 |  |  | 0.93 0.86-1.00 |
|  |  |  | |  |  |  |  | *P heterogeneity by menopausal status* = 0.30 | | |  |  |  |  |
|  |  |  | |  |  |  |  | *P heterogeneity by subtype =* 0.64 | | |  |  |  |  |
|  |  |  |  |  |  |  | | |  |  |  |  |  |  |
| Abbreviations: 4-CBCS, 4-Corners Breast Cancer Study; ER-PR-, estrogen receptor and progesterone receptor negative; HR+, hormone receptor positive (estrogen receptor and/or progesterone receptor positive); HT, hormone therapy; MBCS, Mexico Breast Cancer Study; NC-BCFR, Northern California Breast Cancer Family Registry; SFBCS, San Francisco Bay Area Breast Cancer Study.  a Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), education (less than high school, high school graduate, post high school education), family history of breast cancer in first-degree relatives (no, yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), menopausal status and HT use (premenopausal, postmenopausal never used HT, postmenopausal past HT use, postmenopausal current HT use, menopausal status unknown), average daily alcohol consumption (0, 0.1-4.9, 5-9.9, ≥10 grams), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  b Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), education (less than high school, high school graduate, post high school education), family history of breast cancer in first-degree relatives (no, yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), average daily alcohol consumption (0, 0.1-4.9, 5-9.9, ≥10 grams), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  c Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), education (less than high school, high school graduate, post high school education), family history of breast cancer in first-degree relatives (no, yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), HT use (never, past use, current), average daily alcohol consumption (0, 0.1-4.9, 5-9.9, ≥10 grams), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  d Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), family history of breast cancer in first-degree relatives (no, yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  e Adjusted additionally for parity and lifetime breast-feeding.  f Number of live births.  g Adjusted additionally for lifetime breast-feeding and age at first live birth.  h Adjusted additionally for parity and age at first live birth.  i Trend for women who breast-fed. | | | | | | | | | | | | | | |

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| **eTable 3.** Joint Associations of Breast-feeding, Parity, and Age at First Birth on Risk of Overall Breast Cancer and Hormone Receptor Positive Breast Cancer among Parous U.S. Hispanic Women | | | | | | |
|  | | **Parous U.S. Hispanic Women** | | | | |
|  |  | **Controls**  **N=2,251** | **All**  **Cases**  **N=1,838** |  | **HR+**  **Cases**  **N=1,139** |  |
|  |  | **N** | **N** | **OR 95% CI a** | **N** | **OR 95% CI a** |
| Parity b by duration of breast-feeding (months) c | |  |  |  |  |  |
|  | 1 birth  No breast-feeding | 104 | 145 | 1.0 | 101 | 1.0 |
|  | 1-12 months breast-feeding | 107 | 115 | 0.74 0.51-1.09 | 72 | 0.67 0.44-1.03 |
|  | ≥13 months breast-feeding | 23 | 26 | 0.71 0.37-1.35 | 19 | 0.75 0.37-1.51 |
|  | 2-3 births  No breast-feeding | 373 | 381 | 0.76 0.56-1.04 | 243 | 0.70 0.50-0.98 |
|  | 1-12 months breast-feeding | 437 | 401 | 0.66 0.49-0.89 | 234 | 0.58 0.41-0.81 |
|  | ≥13 months breast-feeding | 307 | 236 | 0.55 0.40-0.75 | 146 | 0.50 0.35-0.72 |
|  | ≥4 births  No breast-feeding | 198 | 148 | 0.62 0.44-0.89 | 90 | 0.53 0.35-0.79 |
|  | 1-12 months breast-feeding | 201 | 136 | 0.57 0.39-0.81 | 89 | 0.52 0.35-0.78 |
|  | ≥13 months breast-feeding | 501 | 250 | 0.46 0.33-0.64 | 145 | 0.39 0.27-0.56 |
|  |  |  |  | *P* interaction = 0.71 |  | *P* interaction = 0.74 |
| Age at first live birth (years) by duration of breast-feeding (months) d | |  |  |  |  |  |
|  | <20 years  ≥13 months breast-feeding | 306 | 166 | 1.0 | 90 | 1.0 |
|  | 1-12 months breast-feeding | 184 | 141 | 1.09 0.80-1.49 | 82 | 1.18 0.81-1.72 |
|  | No breast-feeding | 179 | 160 | 1.29 0.95-1.76 | 105 | 1.48 1.03-2.13 |
|  | 20-29 years  ≥13 months breast-feeding | 459 | 281 | 1.01 0.78-1.39 | 174 | 1.12 0.82-1.53 |
|  | 1-12 months breast-feeding | 466 | 420 | 1.27 0.98-1.64 | 253 | 1.36 0.99-1.85 |
|  | No breast-feeding | 430 | 417 | 1.40 1.08-1.82 | 257 | 1.49 1.08-2.04 |
|  | ≥30 years  ≥13 months breast-feeding | 66 | 65 | 1.18 0.77-1.81 | 46 | 1.49 0.92-2.43 |
|  | 1-12 months breast-feeding | 95 | 91 | 1.14 0.77-1.69 | 60 | 1.29 0.82-2.03 |
|  | No breast-feeding | 66 | 97 | 1.85 1.22-2.79 | 72 | 2.26 1.43-3.60 |
|  |  |  |  | *P* interaction = 0.48 |  | *P* interaction = 0.97 |
|  |  |  |  |  |  |  |
| Abbreviation: 4-CBCS, 4-Corners Breast Cancer Study; ER-PR-, estrogen receptor and progesterone receptor negative; HR+, hormone receptor positive (estrogen receptor and/or progesterone receptor positive); HT, hormone therapy; MBCS, Mexico Breast Cancer Study; NC-BCFR, Northern California Breast Cancer Family Registry; SFBCS, San Francisco Bay Area Breast Cancer Study.  a Odds ratios and 95% confidence intervals, adjusted for age (years; continuous), study (SFBCS, NC-BCFR, 4-CBCS), education (less than high school, high school graduate, post high school education), family history of breast cancer in first-degree relatives (no, yes), age at menarche (<12, 12, 13, ≥14 years), hormonal contraception use (never, former, current), menopausal status and HT use (premenopausal, postmenopausal never used HT, postmenopausal past HT use, postmenopausal current HT use, menopausal status unknown), average daily alcohol consumption (0, 0.1-4.9, 5-9.9, ≥10 grams), and body mass index in reference year (<25.0, 25.0-29.9, ≥30.0 kg/m2).  b Number of live births.  c Adjusted additionally for age at first live birth.  e Adjusted additionally for parity | | | | | | |
|  | | | | | | |